

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 03/01485

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 10/26, E21B 7/28
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2823900 A (C.W. KANDLE), 18 February 1958 (18.02.58) --	1-6
A	US 3885638 A (S.C. SKIDMORE), 27 May 1975 (27.05.75) --	1-6
A	US 4515227 A (J. CERKOVNIK), 7 May 1985 (07.05.85) --	1-6
A	US 4635738 A (H. SCHILLINGER ET AL), 13 January 1987 (13.01.87) -----	1-6

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
11 December 2003	17 -12- 2003

Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Christer Bäcknert / MRo Telephone No. +46 8 782 25 00
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INTERNATIONAL SEARCH REPORT
Information on patent family members

31/10/03

International application No.
PCT/SE 03/01485

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	2823900	A	18/02/58	NONE		
US	3885638	A	27/05/75	AU	7408174 A	15/04/76
				CA	1018149 A	27/09/77
				GB	1474259 A	18/05/77
US	4515227	A	07/05/85	NONE		
US	4635738	A	13/01/87	BE	902156 A	31/07/85
				DE	3414206 C	21/02/85
				FR	2562947 A,B	18/10/85